

What is claim d is:

1. A method for minimizing the Inter-Document Zone (IDZ) in multi-pass printing system architectures with print engines employing asynchronous paper delivery; and providing control over paper feed and imaging times comprising:

- a) receiving input electronic data of an image intended to be printed;
- b) inspecting said data to determine both the lead edge (L.E.) and the trail edge (T.E.) blank borders of said image; and
- c) on a page by page basis determining whether said blank borders exceed a minimum design distance and adjust imaging and paper delivery timing accordingly to increase subsequent printing speed.

2. The method of **claim 1** where when the L.E. blank borders exceed the minimum design distance the images corresponding to that page are printed sooner than nominally.

3. The method of **claim 1** where the T.E. blank borders exceed the minimum design distance the image corresponding the subsequent document are printed sooner than nominally.

4. The method of **claim 1** where the T.E. blank borders exceed the minimum design distance any transition events timing is performed sooner than nominally.